

REMARKS

Claims 1-26 were pending in the present application. Claims 1 and 16 have been amended. Accordingly, claims 1-26 are currently pending. No new matter has been added. Applicants respectfully request reconsideration of the claims in view of the following remarks.

The Examiner rejected claims 1-13, 16-23 and 25 under 35 U.S.C. § 103(a) as being unpatentable over U.S. Patent No. 6,920,173 (“Nakamura”) in view of U.S. Patent No. 6,810,007 (“Kim”).

Independent claim 1 has been amended to recite “orthogonal frequency division multiplexing (OFDM) demodulating the symbol after the despreading the symbol.” The cited prior art, taken alone or in combination, does not teach or suggest performing OFDM on a symbol after the symbol has been despread. As stated in Applicants’ specification, despreading reduces the spectral space consumed by the received signal, so that the OFDM demodulation can operate on a smaller amount of information, thus reducing the number of computations required to perform the OFDM demodulation. *See, e.g.,* Application, ¶ [0042]. Accordingly, Applicants respectfully submit that claim 1 is patentable over the cited prior art.

Similarly, independent claim 16 has been amended to recite “an orthogonal frequency division multiplexing (OFDM) demodulator coupled to an output of the despreaders.” The cited prior art, taken alone or in combination, does not teach or suggest an OFDM demodulator coupled to the output of a despreaders. As stated in Applicants’ specification, the despreaders reduces the spectral space consumed by the received signal,

so that the OFDM demodulator can operate on a smaller amount of information, thus reducing the number of computations required to perform the OFDM demodulation. *See, e.g.,* Application, ¶ [0042]. Accordingly, Applicants respectfully submit that claim 16 is patentable over the cited prior art.

Claims 2-15 and 17-26 depend from claim 1 and claim 16, respectively, and add further limitations. It is respectfully submitted that these dependent claims are allowable by reason of depending from an allowable claim as well as for adding new limitations.

Applicants acknowledge that claims 14-15, 24, and 26 are objected to, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims. Based on the foregoing remarks, however, Applicants believe that each of the independent claims from which these claims depend are in condition for allowance. Thus, Applicants respectfully submit that these dependent claims are allowable by reason of depending from an allowable claim as well as in their own right.

In view of the above, Applicants respectfully submit that this response complies with 37 C.F.R. § 1.116 and that the claims are in condition for allowance. No new matter has been added by this amendment. If the Examiner should have any questions, please contact Applicants' Attorney, Ron Neerings, at 972-917-5299. No fee is believed due in connection with this filing. However, in the event that there are any fees due, please charge the same, or credit any overpayment, to Deposit Account No. 20-0668.

Respectfully submitted,

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Date

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